

Wind and Solar Curtailment May 16, 2021

This report is produced daily to provide a detailed accounting of the wind and solar renewable generation that was curtailed and the reasons why¹. This report should be read in the context of the Renewables Watch report for a more complete understanding of both renewable curtailment and generation².

Wind and solar curtailments are grouped into the following categories:

1. Economic - Local: Market dispatch of generators with economic bids to mitigate local congestion³.
2. Economic - System: Market dispatch of generators with economic bids to mitigate system-wide oversupply⁴.
3. SelfSchCut - Local: Market dispatch of self-schedules to mitigate local congestion.
4. SelfSchCut - System: Market dispatch of self-schedules to mitigate system-wide oversupply.
5. ExDispatch - Local: Exceptional dispatch to mitigate local congestion.
6. ExDispatch - System: Exceptional dispatch to mitigate system-wide oversupply.

Note: Amounts smaller than 1 MW are filtered out for simplicity. Such small curtailments are occasionally observed when forecasts are lower than Pmin when market will de-commit the unit and send the 0 MW dispatch.

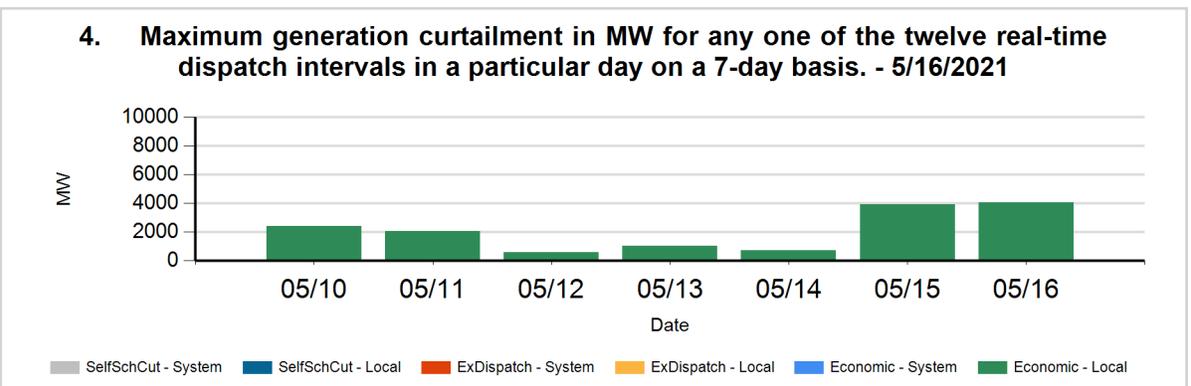
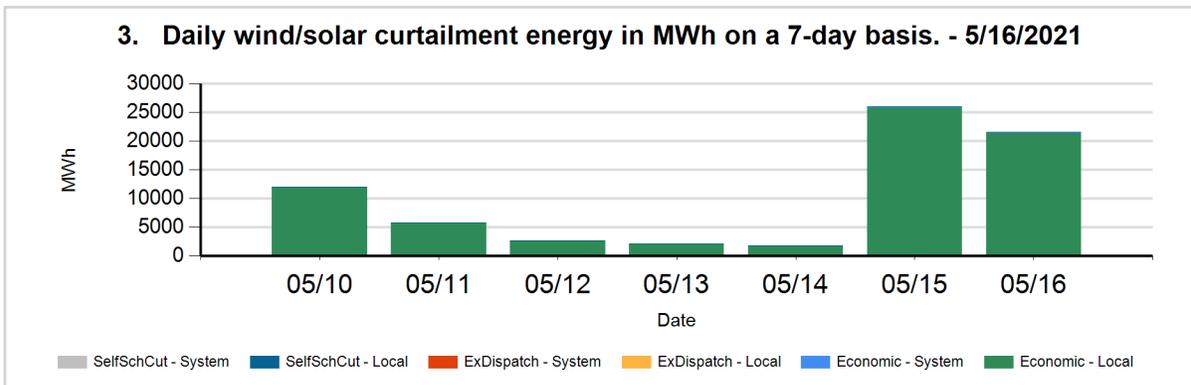
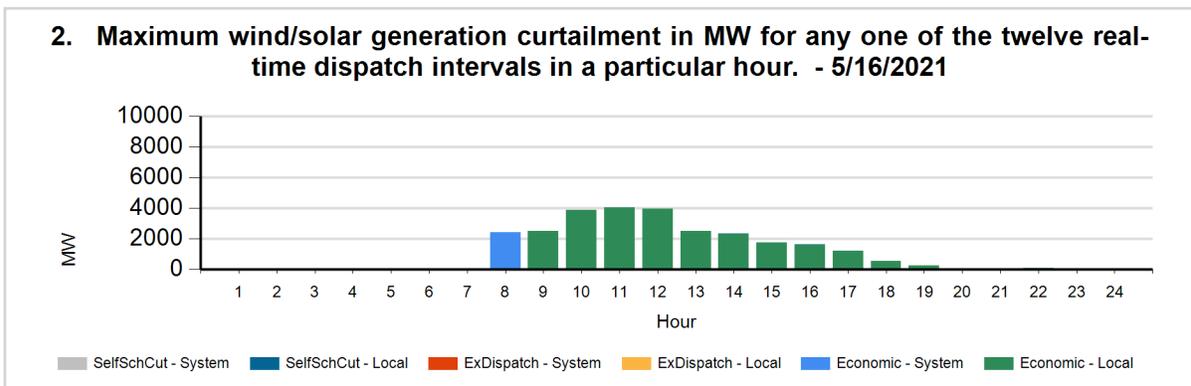
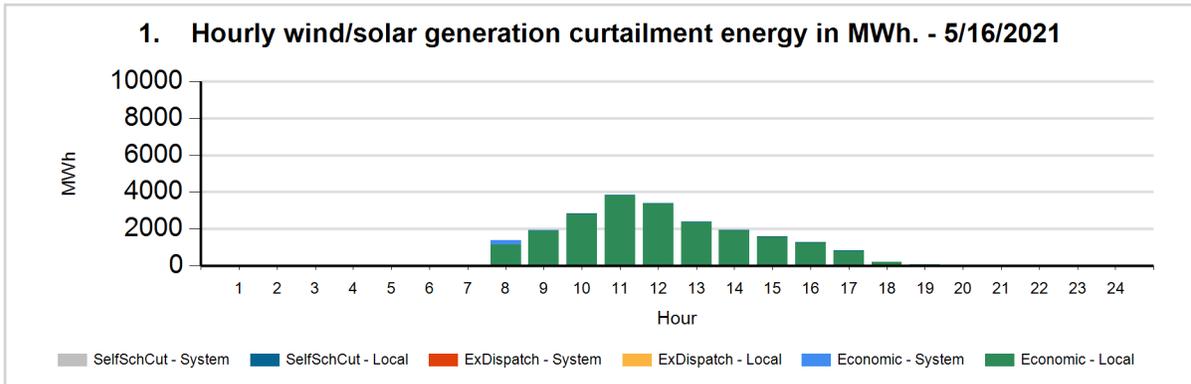
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

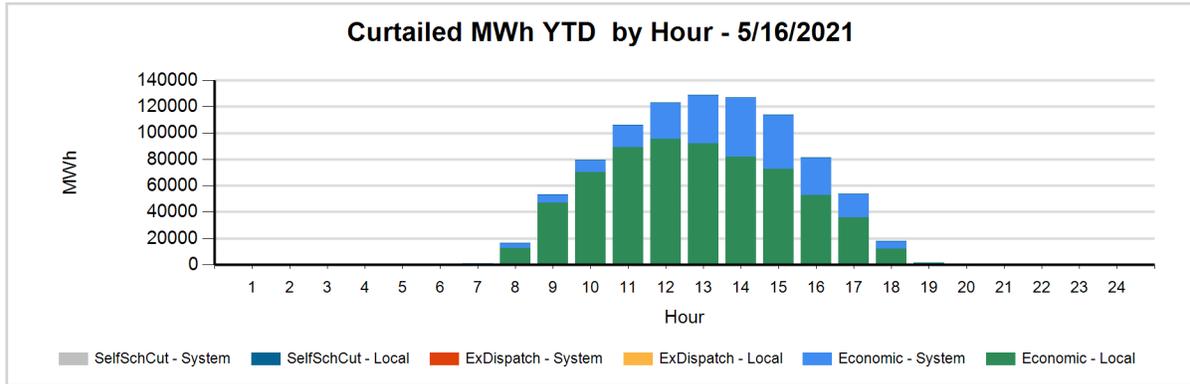
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

⁴For more information on oversupply conditions, please see: https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf

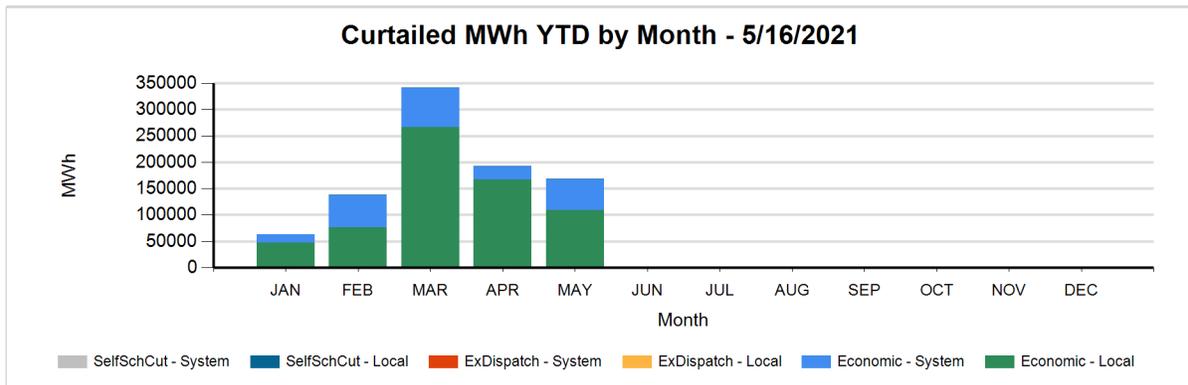
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



The following charts show hourly year to date wind and solar curtailment by category, if any.



The following charts show monthly year to date wind and solar curtailment by category, if any.



TYPE	YTD CURTAILED MWH - 5/16/2021
LocalEconomic	664,249
LocalSelfSchCut	2,706
SystemEconomic	236,408
TOTAL	903,363

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/16	1	Economic	Local	WIND	1	18
05/16	1	Economic	System	WIND	0	2
05/16	7	Economic	Local	SOLR	3	22
05/16	7	Economic	System	SOLR	0	1
05/16	8	Economic	Local	SOLR	1133	
05/16	8	Economic	Local	WIND	9	
05/16	8	Economic	System	SOLR	222	2379
05/16	8	Economic	System	WIND	8	33
05/16	9	Economic	Local	SOLR	1884	2414
05/16	9	Economic	Local	WIND	47	71
05/16	9	Economic	System	SOLR	1	
05/16	9	Economic	System	WIND	1	
05/16	10	Economic	Local	SOLR	2705	3673
05/16	10	Economic	Local	WIND	120	214
05/16	10	SelfSchCut	Local	SOLR	2	
05/16	11	Economic	Local	SOLR	3684	3752
05/16	11	Economic	Local	WIND	155	271
05/16	11	Economic	System	SOLR	0	
05/16	11	SelfSchCut	Local	SOLR	4	
05/16	12	Economic	Local	SOLR	3255	3895
05/16	12	Economic	Local	WIND	115	65
05/16	12	SelfSchCut	Local	SOLR	3	
05/16	13	Economic	Local	SOLR	2358	2409
05/16	13	Economic	Local	WIND	20	83
05/16	13	SelfSchCut	Local	SOLR	4	
05/16	14	Economic	Local	SOLR	1915	2329
05/16	14	Economic	Local	WIND	5	4
05/16	14	Economic	System	SOLR	1	
05/16	14	SelfSchCut	Local	SOLR	4	11
05/16	15	Economic	Local	SOLR	1576	1724
05/16	15	Economic	Local	WIND	7	7

05/16	15	SelfSchCut	Local	SOLR	5	
05/16	16	Economic	Local	SOLR	1269	1616
05/16	16	Economic	Local	WIND	7	8
05/16	16	Economic	System	SOLR	5	
05/16	16	SelfSchCut	Local	SOLR	3	8
05/16	17	Economic	Local	SOLR	820	1190
05/16	17	Economic	Local	WIND	6	13
05/16	17	SelfSchCut	Local	SOLR	1	
05/16	18	Economic	Local	SOLR	191	541
05/16	19	Economic	Local	SOLR	50	227
05/16	22	Economic	Local	WIND	5	63

The information contained in this report is preliminary and subject to change without notice. No inference, decision or conclusion should be made based on the information in this report or any series of these reports. All values are hourly average unless otherwise stated. Questions about this report should be directed to Short-Term Forecasting at ShortTermForecasting@caiso.com.